09.461,846 Search Strategy/Results

(FILE 'HOME' ENTERED AT 17:13:39 ON 16 JAN 2002)

	FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS, USPATFULL'
	ENTERED AT 17:13:51 ON 16 JAN 2002
Ll	24528 S (CYS? (W) (PROTEASE OR PROTEINASE)) OR CP1
L2	1883 S L1 AND (BACILLUS OR (GRAM (W) POSITIVE OR BACTERIA#
L3	4300 S (CYS? (W) (PROTEASE OR PROTEINASE: (W) 1) OR CP1
L4	181 S L3 AND (BACILLUS OR (GRAM (W) POSITIVE, OR BACTERIA#;
1.5	112 S L4 NOT PY>1998
L6	93 DUP REM L5 (19 DUPLICATES REMOVED)
147	32 S L6 AND (MUTA:/ OR DELET/)
L8	135 S CYS? (W) (PROTEASE OR PROTEINASE) W: 1: OR CP1 AND PROTEA
L9	38 S L8 AND (BACILLUS OR (GRAM (W) POSITIVE: OR BACTERIA#)
L10	37 DUP REM L9 (1 DUPLICATE REMOVED)

= >

CONTINUE? Y' No :Y ED DATA FROM 33 ANSWERS

L10 ANSWER 1 OF 37 USPATFULL

2001:231174 USPATFULL ACCESSION NUMBER:

Protease homologs TITLE:

INVENTOR(S : Robison, Keith E., Wilmington, MA, United States

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc , Cambridge, MA, United

States [U.S. corporation;

NUMBER KIND DATE

US 6331427 B1 20011218 PATENT INFORMATION: 19990326

APPLICATION INFO.: US 1999:280116 DOCUMENT TYPE Utility

GRANTED FILE SEGMENT

Murthy, Ponnathapu Achuta Moore, William W. PFIMARY EXAMINEE:

ASSISTANT EXAMINER: LEGAL FEPRESENTATIVE: Alston & Bird LLF

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT

3346

The invention relates to polynucleotides encoding newly identified

protease homologs belonging to the superfamily of G-protein-coupled proteases. The invention also relates to the proteases. The invention further relates to methods using the protease polypeptides and polymucleotides as a target for diagnosis and treatment in protease-mediated disorders. The

invention further relates to drug-screening methods using the protease polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the protease polypeptides and polymucleotides. The invention further relates to

procedures for producing the protease polypeptides and polynucleotides.

L10 ANSWER 2 OF BT USPATFULL

2001:231163 USPATFULL ACCESSION NUMBER:

Process of expressing and isolating recombinant TITLE:

proteins and recombinant protein products from plants,

plant derived tissues or cultured plant cells

Shani, Ziv. Rehovot, Israel INVENTOR S :

Shoseyov, Oded, Karme Yosef, Israel

JBD Technologies Ltd., Rehovot, Israel (non U.S. PATENT ASSIGNEE(S):

corporation)

Yissum Research and Development Company of the Hebrew University of Jerusalem, Jerusalem, Israel (non-U.S.

corporation)

NUMBER KIND DATE

B1 20011213 PATENT INFORMATION: JS 5331416 US 1999-323234 1999061) (9) APPLICATION INFO .: DOCUMENT TYPE Utility

FILE SEGMENT GRANTED

AΒ

PRIMARY EXAMINER: Campbell, Bruce R. AJSISTIUT UXAMINER Moitsch, Joseph T

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1.1

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s) LINE COUNT 1884

CAS INTEXTIG IS AVAILABLE FOR THIS PATENT.

 $\mbox{\ensuremath{\mathtt{A}}}$ process of expressing a recombinant protein in a plant and of isolating the recombinant protein from the plant, the process is effected by (a) providing a plant, a plant derived tissue or cultured plant cells expressing a fusion protein including the recombinant protein and a cellulose binding peptide being fused thereto, the fusion protein being compartmentalized within cells of the plant, plant derived tissue or cultured plant cells, so as to be sequestered from cell walls of the cells of the plant, plant derived tissue or cultured plant cells; (b) homogenizing the plant, plant derived tissue or cultured plant cells, so as to bring into contact the fusion protein with a cellulosic matter of the plant, plant derived tissue or cultured plant cells, to thereby effect affinity binding of the fusion protein via the cellulose binding peptide to the cellulosic matter, thereby obtaining a fusion protein cellulosis matter complex; and (c) isolating the fusion protein sellulosis matter complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 37 USPATFULL

ACCESSION NUMBER: 2001:136774 USPATFULL TITLE: Cloning and expression of a DNA sequence encoding a 41

kDa cryptosporidium parvum oocyst wall protein INVENTOR S::

Jenkins, Mark C., Davidsonville, MD, United States Fayer, Ron, Columbia, MD, United States Trout, James, Columbia, MD, United States

The United States of America as represented by the PATENT ASSIGNEE S :

Secretary of Agriculture, Washington, DC, United States

U.S. government

KIND DATE NUMBER

un apangana 20010821 PATENT INFORMATION: APPLICATION INFO.: 03 1999 451117

Utility DOCUMENT TYPE: FILE SEGMENT: GRANTED

Stucker, Jeffrey PRIMARY EXAMINER: Winkler, Ulrike ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Silverstein, M. Howard, Fado, John D., Rabin, Evelyn M.

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 12 Drawing Page s.

LINE COUNT: 1510

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

Recombinant proteins have been developed for the immunization of animals against pryptosporadiosis. The proteins are effective for the immunization of a variety of animals against Cryptosporidium parvum, particularly for the production of hyperimmune colostrum that may be used to confer passive immunity against the parasite. Isolated DNA sephences which encode these proteins have also been developed. The DNA

semmences may be inserted into recombinant DNA molecules such as cloning vectors or expression vectors for the transformation of cells and the production of the proteins.

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 4 OF 37 USPATFULL

ACCESSION NUMBER: 2001:121243 USPATFULL

Methods for stool sample preparation TITLE:

Shuber, Anthony P., Milford, MA, United States INMENTOR (S.: Lapidus, Stanley N., Eedford, NH, United States Radcliffe, Gail E., Worcester, MA, United States

Exact Science Corporation, Maynard, MA. United States PATENT ASSIGNEE (S) :

(U.S. corporation)

NUMBER KIND DATE

B1 20010731 PATENT INFORMATION: US 5268136 APPLICATION INFO:: US 1998 198033 19381123 (9)

Continuation in-part of Ser. No. US 1997 876638, filed RELATED APPLN. INFO.:

or. 16 Jun 1997, now abandoned

DOCUMENT TYPE: Utilit: FILE SEGMENT: GEANTED

PRIMARY EXAMINES: Horlick, Kenneth R

LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibeault LLP

NUMBER OF CLAIMS: 48 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS. LINE COUNT I Diawing Figure 2 , 2 Drawing Capt 2

91.8

CAS INDEXING IS AVAILABLE FOR THIS PATENT. AB

The present invention provides methods for the preparation of stool samples to increase the yield of relevant DNA, and further provides methods for isolating and analyzing target DNA for characteristics indicative of colorectal cancer. Methods for screening patients for the presence of cancercus or pre cancerous colorectal lesions are also promided.

19950607

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

L1) ANSWER 5 OF 37 USPAIFULL

APPLICATION INFO. :

2(01:67794 USPATFULL ACCESSION NUMBER:

TITLE: Human respiratory syncytial virus peptides with

antifusogenic and antiviral activities

Barney, Shawm O'Lin, Cary, NC, United States Lambert, Dennis Michael, Cary, NC, United States Petteway, Stephen Robert, Cary, NC, United States Trimeris, Inc., Durham, NC, United States U.S. INVENTOR S :

PATENT ASSIGNEE'S :

corporation!

KIND NUMBER DATE US 6228983 PATENT INFORMATION: B1 20010508 US 1995:485264

Division of Ser. No. US 1995 470896, filed on 6 Jun RELATED APPLN. INFO:: 1995 Continuation in part of Ser. No. US 1994 36010 filed on 20 Dec 1994 Continuation in part of Ser. No.

U3 1994-255208, filed on 7 Jun 1994

Continuation in part of Ser. No. US 1993 73028, filed

om 7 Jun 1993, now patented, Pat. No. US 5464933

Utility DOCUMENT TYPE: FILE SEGMENT: Granted

Scheiner, Laurie Parkin, Jeffrey S PRIMARY EXAMINER: ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: Pennie & Eimonds LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 52

NUMBER OF DRAWINGS: 34 Drawing Figure(s); 33 Drawing Page s:

LINE COUNT: 32166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB. The present invention relates to peptides which exhibit antifusogenic and antiviral activities. The peptides of the invention consist of a 16 to 39 amino acid region of a human respiratory synoytial virus protein. These regions were identified through computer algorithms capable of recognizing the ALLMOTIS, 100x178x4, or PLZIP amino acid motifs. These motifs are associated with the antifusogenic and antiviral activities of the claimed peptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

110 ANSWER 6 OF 37 USPATFULL

ACCESSION NUMBER: 2001:59662 USPATFULL

TITLE:

Enterococcal aminoacyl-trna synthetase proteins,

nucleic acids and strains comprising same

INVENTOR (S):

Tao, Clanshi, North Andover, MA, United States Sassanfar, Mandana, Dedham, MA, United States Ballant, Paul L., Dedham, MA, United States Shen, Xiaoyu, Boston, MA, United States

Avruch, Anthony S., Watertown, MA, United States Yu, Fussell V., Munster, IN, United States

Nair, Shamila, Paris, France(4)

PATENT ASSIGNEE(S): Dubist Pharmaceuticals, Inc., Cambridge, MA, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6221640

B1 20010424 APPLICATION INFO.: US 1997-853910 19970514 (8)

DOCUMENT TYPE: Utility FILE SEGMENT Granted PRIMARY EXAMINER: Hobbs, Lisa J.

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: 110 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: ∃ Drawing Figure(s); ∃ Drawing Page(s)

LINE COUNT: 4483

CAS INDEXING IS AVAILABLE FOR THIS PATENT

Fecombinant nucleic acids which encode aminoacyl tRNA sythetases of AB enterococcal origin or portions of such enzymes, have been isolated. These nucleic acids can be used to make expression constructs and transfermed hist relia for the production of enterococcal amin acyd temas synthetases. They can also be used in the further isolation of nucleic acids related by DNA sequence similarities, which also encode $\frac{1}{2}$ enterococcal aminoacyl-tRNA synthetases, or portions thereof. A further embodiment of the invention is antisense nucleic acid which can hybridize to the musleic asid which encodes the aminoasyl-tRNA synthetase of enterproducti. The invention also relates to tRNA synthetases such as isolated and or recombinant enterococcal aminoacyl tRNA synthetases. Antipodies which bind to these enzymes can he made and can be used in the parification and study of the enzymes. Tester strains, which are cells engineered to rely on the function of the tRNA synthetase encoded by an introduced cloned gene, can be used to test the effectiveness of drug candidates in the inhibition of the

essential tRNA synthetase enzyme encoded by an introduced cloned gene.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LIG ANSWER TOF 3T USPATFULL

2001:36456 USPATFULL ACCESSION NUMBER: TITLE Antiflatulent composition

INVENTOR.S: Day, Charles E., 1434 Sunbeam Rd., Leitchfield, KY,

United States 42754

NUMBER KIND DATE

PATENT INFORMATION: US 6200605 B1 20010313

US 1998 182695 19981029 APPLICATION INFO.:

> DATE NUMBER

US 1997 64407 19971030 60

PRICRITY INFORMATION: DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

Page, Thurman K. PRIMARY EXAMINER: ASSISTANT EXAMINER: Ware, Todd D.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT:

CAS INTEXING IS AVAILABLE FOR THIS PATENT

AВ An antiflatulent composition is disclosed which comprises a

polysaccharide and a preservative. The composition is useful to control was formation at the site of generation of flatulence.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

U10 ANSWER 8 OF 37 USPATFULL

ACCESSION NUMBER: 1001:7867 USPATFULL

Purification of a polypeptide compound having a TITLE:

polysascharide binding domain by affinity phase

separation

INVENTOR (S): Haynes, Charles A., Vancouver, Canada

Tomme, Peter, Vancouver, Canada

Kilburn, Douglas G., Vancouver, Canada University of British Columbia, Vancouver, Canada PATENT ASSIGNEE(S):

(non-U.S. corporation)

NUMBER. KIND DATE

US 6174790 US 6174700 B1 20010116 US 1995 505860 19950724 : NCITAMRC FAIL THETAG APPLICATION INFO.: (8)

Continuation-in-part of Ser. No. US 1994 249037, filed on 24 May 1994 Continuation of Ser. No. US 1992 865095, RELATED APPLN. INFO.: filed on 8 Apr 1992, now patented, Pat. No. US 5340731

Continuation-in-part of Ser. No. US 1990-603937, filed on 28 Oct 1990, now patented, Pat. No. US 5202247 tivision of Ser. No. US 1988-216794, filed on 8 Jul 1988, now patented, Pat. No. US 5137819

DOCUMENT TYPE -Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Naff, David M.

LEGAL REPRESENTATIVE: Rae-Venter, BarbaraRae Venter Law Group P.C.

NUMBER OF CLAIMS: 3.4 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 25 Drawing Figure(s); 18 Drawing Page(s) 0.013

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A compound having a polysaccharide binding domain such as contained by a rellulose and essentially lacking in polysaccharidase activity is purified from other ingredients in a mixture using an affinity partition system. A mixture containing the compound is contacted with a system containing as a first phase an aqueous solution of oligosaccharide polymer such as cellulose and as a second phase a solution of a polymer una as a poly etojlene glynol compound petitions into the first phase and binds to the oligosaccharide polymer, preferably with a F.sub.a of 10.sup.3 to 10.sup.7, to form a complex. The complex is collected, and the compound is dissociated from the oligosaccharide polymer. The compound may be formed of a non peptide themical moiety or a peptide moiety linked to a polypeptide having the polysaccharide binding domain. The compound may also be a fusion polypeptide containing the polysacrnaride binding domain linked through a protease recognition sequence to a macromolecule such as an enzyme, a hormone or an antibody. The masromolecule can be removed by using a protease to cleave the recognition sequence. Another

partition system contains the oligosaccharide polymer and a phase separation inducing agent such as a sulfate or citrate salt that induces separation to produce different phases.

L10 ANSWER 9 OF 37 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V. ACCESSION NUMBER: 2001357710 EMBAGE

ACCESSION NUMBER:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

TITLE: Functional expression of the catalytic domains of two cysteine proteinases from Trypanosoma congolense.

Boulange A.; Serveau C.; Brillard M.; Minet C.; Gauthier AUTHOF:

F.; Diallo A.; Lalmanach G.; Authie E.

CORPORATE SOURCE: E. Authie, Lab. Rech. Coord. les Trypanosomoses, IRD CIRAD,

Campus international de Baillarguet, 34398 Montpellier

Cedex 5, France. e.authie cgiar.org

39 462,846 Search Strategy, Results International Journal for Parasitology, 2001 31 13 SOURCE: 1435 1440 Refs: 19 ISSN: 0020 7519 | CODEN: IJPYBT S 0020 7519/01 00267 3 PUBLISHER IDENT :: United Kingdom DOCUMENT TYPE: Journal; Article FILE SEGMENT: 0.04 Microbiology English LANGUAGE: SUMMARY LANGUAGE: English The datalytic domains of two closely related dysteine proteinases CP1 and CP2 from Trypannsoma congolense, referred to as C1 and C1, were expressed as profitms in Eschericals cell C1 and in the baculovirus system C1 and C2). While the bacterial expression system did not allow recovery of active C1, the baculovirus system led to

secretion of inactive zymogens which could be processed at acidic pH into mature enzymes. Active C1 and C2 were purified from serum free culture supernatants by anion-exchange chromatography and characterised. Their kinetic parameters and pH activity profiles confirmed the relatedness between C2 and native CP1 congopain). These properties also underline major functional differences between C1 and C2, that appear to relate to discrete but essential sequence differences. It is likely that these two enzymes perform distinct roles in vivo, in the parasite ani/or in the host-parasite relationships. .COPYRGT. 2001 Australian Society for Parasitology Inc. Published by Elsevier Science Ltd. All rights reserved.

L10 ANSWER 10 OF 37 USPATFULL

ACCESSION NUMBER:

2100:193533 USPATFULL

TITLE:

Cloning and sequencing of allergens of dermatophagoides

(nouse dust mite)

INVENTOS (S)

Thomas, Mayno Robert, Nedlands, Australia Stewart, Geoffrey A., Leeming, Australia Turner, Keven J., Claremont, Australia Simpson, Richard J., Richmond, Australia

PATENT ASSIGNEE.S/:

Immulogic Pharmaceutical Corporation, Waltham, MA,

United States (U.S. corporation)

NUMBER KIND

PATENT INFORMATION: APPLICATION INFO. :

20011114 U3 6147201 US 1995-472123 19950607 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1994-301137, filed on 6 Sep

1994 which is a continuation of Ser. No. US

1993 117332, filed on 16 Aug 1993, now abandoned which is a continuation of Ser. No. US 1990-530655, filed on

11 Sep 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1990 458642, filed

on 13 Feb 1990, now abandoned

NUMBER DATE

PRIORITY INFORMATION:

AT 1981 12823 19870618 WO 1955-AU195 19880617

DOCUMENT TYPE:

11-11-6

FILE SEGMENT: Granted

PRIMARY EXAMINER:

LEGAL REPRESENTATIVE:

Scheiner, Laurie Dabive & Cockfiled, LIP Remillard, Eschire, Jane E.

Maniragódras, Esq., Amy E.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

11 Drawing Figure (s); 12 Drawing Page (s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Isolated DNA encoding allergens of Termatophagoides house dust mites particularly of the species Dermatophagoides farinae and

Dermatophagoides pteronyssimus, which are protein allergens or peptides which include at least one epitope of the protein allergen. In

particular, DNA encoding two major D. farinae allergens, Der f I and Der f II and DNA encoding a D. pteronyssinus allergen, Der p I. In addition, the proteins or peptides encoded by the isolated DNA, their use as

diagnostic and therapeutic reagents and methods of diagnosing and treating sensitivity to house dust mite allergens.

CAS INTEXING IS AVAILABLE FOR THIS PATENT

L10 ANSWER 11 OF 37 USPATFULD

ACCESSION NUMBER:

2000:47081 USPATFULL

TITLE: INVENTOR S': Human cDNAs and proteins encoded thereby

Kato, Seishi, Sagamihara, Japan

Oh, Suwan, Taejeon, Korea, Republic of Sekine, Shingo, Sagamihara, Japan Kim, Namsoon, Sagamihara, Japan

Kato, Takae, Tokyo, Japan

Iwahori, Akiyo, Tokyo, Japan Sagami Chemical Research Center, Tokyo, Japan (non U.S. PATENT ASSIGNEE'S.:

corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5051424 20000418 US 1995-390207 19950216 APPLICATION INFO.:

Continuation in-part of Ser. No. US 379441 RELATED APPLN. INFO.:

> NUMBER DATE

JP 1992-208077 JP 1992-327619 19920814 PRIORITY INFORMATION:

19921113 JP 1993-61431

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted PRIMARY EXAMINER: Priebe, Scott D. LEGAL FERRESENTATIVE: Foley & Lardner

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: 1,2

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 5919

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Isolated cDNAs derived from mRNAs expressed in human cells are provided, AB as are DNAs and RNAs comprising their nucleotide sequences, and vectors for expressing the cDNAs. The cDNAs encode proteins which have functions

similar to known proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

1999: 77703 CAPLUS ACCESSION NUMBER:

130:150350 DOCUMENT NUMBER:

Identification of genes for novel cysteine proteinases TITLE:

in the genome of **Bacillus** subtilis Estell, David A.

INVENTORAS):

PATENT ASSIGNEE(S): Genengor International, Inc., USA; Genencor

International B.V

SOURCE PCT Int. Appl., 31 pp.

CODEN PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE English

FAMILY ACC NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

A2 19990128 A3 19990415 WO 199E-US14529 19980714 WO 9914016

WG 9914016

W: AL, AM, AT, AU, AI, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, HP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MH, MN, MW, MX, NG, NZ, PL, PT, RO, RU, SD, SE,

SG, SI, SK, TJ, TM, TE, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, EZ, MI, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SC, UG, ZW, AT, BE, CH, CY, DE, DF, ES, FI, 88, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, ME, NE, SN, TE, TG

AU 1998 84017 AY 9864017 A1 1999(210 A2 2000510 19980714 EE 998571

998571 A2 2000510 EP 1998-934513 19980714 R: AT, BE, CH, DE, DE, ES, FF, GB, GF, IT, LE, LU, NL, SE, MC, PT,

IE, FI JF 2011510350 T2 20113731 PRIORITY APPLN. INFO.:

UP 100: 503222 19980714 EP 1997 3(5227 A 19970715 WO 1998 UE14529 W 19980714

Three novel cysteine proteinases: CP1, CP1, and CP3, are identified by examn, of the genome of ${\bf Bacillus}$ subtilis for open reading frames carrying sequences typical of cysteine proteinases. The enzymes may be useful as ratalysts in industrial chem., e.g. in cleaning compns. The enzymes may also play a role in the degrdn. of foreign picteins manufd, by expression of the cloned gene in B. subtilis and inactivation of the genes may be useful in increasing yields of foreign proteins

LID ANSWER 18 OF 37 USPATFULL

ACCESSION NUMBER: 1999:40159 USPATFULL

TITLE: Method, compositions and kit for detection and

identification of microorganisms

INVENTOR(S): Lacroix, Jean-Michel, Etobicoke, Canada Leushner, James, North York, Canada

Hui, May, Toronto, Canada

Dunn, James M., Scarborough, Canada

Larson, Marina T., Yorktown, NY, United States Visible Genetics, Inc., Toronto, Canada (non-U.S.

corporation)

KIND DATE NUMBER

PATENT INFORMATION:

19390330 US 5888736

APPLICATION INFO ::

PATENT ASSIGNEE | ST.:

US 1997-807138 19370227

RELATED AFFLN. INFO.:

Continuation-in-part of Ser. No. US 1996-684498, filed on 19 Jul 1996, now patented, Pat. No. US 5830657 Ser. No. Ser. No. US 1996-640672, filed on 1 May 1996, now

patented, Pat. No. US 5739168 And Ser. No. US

1995-577853, filed on 22 Dec 1995, now patented, Pat.

No. US 5834189

DOCUMENT TYPE: FILE SEGMENT

Utility Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Elliott, George C. Larson, Thomas G

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

Oppedahl & Larson LLP

EXEMPLARY CLAIM:

1.1

LINE COUNT

CAS INDEXING IS AVAILABLE FOR THIS PATENT. AB

Evaluation of a sample for the presence and qualitative nature of a microorganism can be performed in a single vessel by combining a natural abundance DNA sample with a sequencing mixture containing a primer pair, a thermally stable polymerase such as ThermoSequenase.TM. which incorporates dideoxynucleotides into an extending nucleic acid polymer at a rate which is no less than about 0.4 times the rate of incorporation of deoxynucleotides, nucleotide triphosphate feedstocks, and a chain terminating nucleotide triphosphate. The mixture is processed through multiple thermal cycles for annealing, extension and denaturation to produce a product mixture which is analyzed by electrophoresis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 37 USPATFULL

ACCESSION NUMBER:

1999:16128 USPATFULL

TITLE INVENTOR (S): Maize chlorotic dwarf virus genome and uses therefor

Law, Marcus, Chapel Hill, NC, United States Reddick, Bradford B., Knoxville, TN, United States

Habera, Ledare, Knoxville, TN, United States

PATENT ASSIGNEE(S) Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

DATE NUMBER KIND

PATENT INFORMATION

US 5866780 19990202 US 1995-416603 19950404 (8)

APPLICATION INFO : DOCUMENT TYPE

Utility

FILE SEGMENT

Granted McElwain, Elizabeth F.

PRIMARY EXAMINER LEGAL REPRESENTATIVE:

Saliwanchik, Lloyd & Saliwanchik 1.0

NUMBER OF CLAIMS EXEMPLAST TLAIM:

2445

LINE COUNT.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides the nucleotide structure and organization of a novel maize chlorotic dwarf virus genome designated MCDV-Tn. Methods for using the complete or partial MCDV-Tn genomic sequence as a probe for diagnostic and other purposes are taught. Methods for inhibiting MCDV-Tm infection are also taught. These methods include the generation of transformed plants capable of expressing MCDV-Tn proteins, either in modified or unmodified form, and antisense sequences targeting MCDV-Tn genomic RNA. Recombinant production of MCDV-Tn proteins in

appropriate host cells is also taught.

CAS INDEXING IS AVAILABLE FOR THIS PAIENT.

LIO ANSWER 15 OF 37 USPATFULL

ACCESSION NUMBER:

TITLE:

Mice homozygous for an inactivated .alpha.

1,3-galactosyl transferase gene

INVENTOR(S):

d'Apice, Anthony J. F., Balwyn, Australia Pearse, Martin J., Mordialloc, Australia Robins, Allan J., Waterloo Corner, Australia Crawford, Robert J., West Lake Shores, Australia

PATENT ASSIGNEE(S):

Rathjen, Peter D., Blackwood, Australia Bresatch Limited, Adelaide, Australia (non-U.S.

corporation)

09 462,846 Search Strategy/Results

St. Vincent's Hospital, Victoria, Australia non U.S. corporation

KIND NUMBER DATE

US 5849991 19981215 PATENT INFORMATION: US 1995 378617 APPLICATION INFO.: 19950126

Continuation in part of Ser. No. US 1994 188607, filed RELATED APPLN. INFO.:

on 27 Jan 1994, now abandoned

DOCUMENT TYPE: Hrilir:

FILE SEGMENT: Granted

PRIMARY EXAMINER: Crouch, Deborah

LEGAL REPRESENTATIVE: Fish & Richardson P.J., P.A.

NUMBER OF CLAIMS: 13

EXEMPLARY CLAIM:

47 Drawing Figure s ; 42 Drawing Page s NUMBER OF DRAWINGS:

LINE COUNT: 4190

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Human pre-formed xenoantibodies play an important role in the hyperacute AB rejection response in human xenotransplantation. Disclosed are materials and methods for removing or neutralizing such antibodies. Also disclosed are materials and methods for reducing or eliminating the epitopes in the donor organs that are recognized by such antibodies. Such epitopes are formed as the result of activity by the enzyme .alpha.-1,3 galactosyltransferase. The porcine gene encoding .alpha.-1,3 galactosyltransferase is disclosed, as are materials and methods for inactivating ("knocking out") the .alpha.-1,3 galactosyltransferase gene in mammalian cells and embryos. Included are nucleic acid constructs useful for inactivating the .alpha. 1,3 galactosyltransferase gene in a target cell. Also disclosed is a novel leukemia inhibitory factor (T-LIF that is useful for maintenance of emoryonic stem cells and primordial germ cells in culture.

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

LIO ANSWER 16 OF 37 USPATFULL

ACCESSION NUMBER: 1998:101531 USPATFULL

Recombinant myopbacterial methionyl tRNA synthetase TITLE:

genes and methods of use therefore

INVENTOR (S. : Martinis, Susan A., Newton, MA, United States

Sassanfar, Mandana, Dedham, MA, United States Kim, Sunghoon, Seoul. Korea, Republic of Lee, Sang Bo, Boston. MA, United States

Schimmel, Faul R., Cambridge, MA, United States PATENT ASSIGNEE(S): Cubist Pharmaceuticals, Inc., Cambridge, MA, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5798240 19930825 APPLICATION INFO : US 1996 584226 19950111

(3) RELATED APPLN INFO.: Division of Ser. No. US 1994 305766, filed on 13 Sep

1994, now abandoned

DOCUMENT TYPE Utility FILE SEGMENT Granted PRIMARY EXAMINER: Wax, Robert A. ASSISTANT FNAMINER: Horre Tisa

LEGAL FEPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: 6.2

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT 2757

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Isolated and/or recombinant nucleic acids encoding mycobacterial methion/l tRNA synthetase have been characterized. Recombinant DNA constructs and vectors having a sequence which encodes mycohacterial methionyl tRNA synthetase have been made, and can be used for the construction of tester strains as well as for the production of isolated and or recombinant methionyl tRNA synthetases. These enzymes or portions thereof are useful in the biochemical separation of methicnine and quantification of methionine or ATP, and for producing antibodies useful in the purification and study of the enzyme, for example. Host cells and methods useful for producing recombinant mycobacterial methionyl tRNA synthetases are described, as are tester strains, which are cells engineered to rely on the function of the tRNA synthetase encoded by an introduced cloned gene. Tester strains can be used to identify inhibitors of the essential tRNA synthetase enzyme encoded by the introduced cloned gene, and thus provide a means to assess the antimicrobial effect and specificity of the inhibitor without employing slow-growing, pathogenic strains of mycobacteria, such as Mycobacterium tuberculosis.

(8)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 17 OF 37 USPATFULL

ACCESSION NUMBER: 1998:75159 USPATFULL

Cloning and sequencing of allergens of dermatophagoides TITLE:

house dust mite: INVENTOR (S):

Thomas, Wayne R., Nedlands, Australia Chua, Kaw Yan, Nollamara, Australia

The Institute of Child Health Research, West Perth. Australia (non-U.S. corporation) PATENT ASSIGNEE S :

Immulogic Pharmaceutical Corporation, Waltham, MA,

United States (U.S. corporation

KIND NUMBEF DATE

: NC: TAMSCHAL TABLE JS 5773002 19980630

APPLICATION INFO:: US 1995-461441 19950605

Division of Ser. No. US 1992 948288, filed on 10 Sep RELATED APPLN. INFO.: 1991, now patented, Pat. No. US 5423948 which is a continuation-in-part of Ser. No. US 1990 580655, filed

on 11 Sep 1990, now abandoned which is a

continuation in part of Ser. No. US 1990 458642, filed

on 13 Feb 1930, now abandoned

NUMBER DATE

19910910

PRIORITY INFORMATION: WO 1991-AU417 DOCUMENT TYPE: Utility

FILE SEGMENT. Granted

PRIMARY EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Lahive & Cockrield, LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM

NUMBER OF DRAWINGS:

31 Drawing Figure(s); 29 Drawing Page(s)

LINE COUNT 1823

CAS INDEXING IS AVAILABLE PUR THIS PATENT.

AB The present invention features isolated DNA encoding allergens of

Dermatophagoides (house dust mites) particularly of the species Termatophagoides farinae and Termatophagoides pteronyssinus, which are protein allergens or peptides which include at least one epitope of the protein allergen. In particular, the invention provides DNA encoding the major D. farinae allergens, Der f I and Der f II and DNA encoding the major D. pteronyssinus allergens, Der p I and Der p II. The present invention further relates to proteins and peptides encoded by the isolated D. farinae and D. pteronyssinus DNA, including proteins containing sequence polymorphisms. In addition, the proteins or peptides encoded by the isolated DNA, their use a diagnostic and therapeutic reagents and methods of diagnosing and treating sensitivity to house just mit allergens, are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 18 (F 37 USPÄTFULL

ACCESSION NUMBER: 1998:70045 YSPATFULL

Cloning and sequencing of allergens of dermatophagoides TITLE:

(house dust mite)

INVENTOR S : Thomas. Wayne P Nedlaris Australia Chua, Kaw Yan, Nollamara, Australia

The Institute for Child Health Research, West Perth, PATENT ASSIGNEE Str

Australia (non U.S. corporation)

Immulogic Fharmaceutical Corporation, Waltham, MA,

United States (U.S. corporation)

KIND DATE NUMBER

US 5770202 PATENT INFORMATION: 19980621

APPLICATION INFO:: US 1995 461809 19950605 RELATED APPLN. INFO.:

Continuation of Ser. No. US 1992-945288, filed on 10 Sep 1992, now patented, Pat. No. US 5433948 which is a continuation in part of Ser. No. US 1990 580655, filed

on 11 Sep 1990, now abandoned which is a

continuation-in part of Ser. No. US 1990 458642, filed

on 13 Feb 1990, now abandoned

DOCUMENT TYPE: Utilit: FILE SEGMENT: Granted

PRIMARY EXAMINES: Scheiner, Laurie LEGAL FEFRESENTATIVE: Lahive & Cockfield, LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM

NUMBER OF DRAWINGS: 31 Drawing Figure(s); 29 Drawing Page(s)

LINE COUNT 1808

CAS INDEXING IS AVAILABLE FOR THIS PATENT

The present invention features isolated DNA encoding allergens of AB Dermatophagoides (house dust mites) particularly of the species Dermatophagoides farinae and Dermatophagoides pterchyssinus, which are protein allergens or peptides which include at least one epitope of the protein allergen. In particular, the invention provides EMA encoding the major D. farinae allergens, Der f I and Der f II and DNA encoding the major D. pteronyssinus allergens, Der p I and Der p II. The present invention further relates to proteins and peptides encoded by the isolated D. farinae and D. pteronyssinus \mathtt{DNA}_{\pm} including proteins containing sequence polymorphisms. In addition, the proteins or peptides encoded by the isolated DNA, their use a diagnostic and therapeutic reagents and methods of diagnosing and treating sensitivity to house fust mite allergens, are disclosed

CAS INDEXING IS AVAILABLE FOR THIS PATENT

L10 ANSWER 19 OF 37 USPATFULL

ACCESSION NUMBER:

1998:61453 U3PATFULL

TITLE:

Human isoleucyl-tRNA synthetase proteins, nucleic acids

and tester strains comprising same

INVENTOR:3::

Shika, Kiyotaka, Tokyo, Japan

Kranz, Janice E., Boston, MA, United States Schimmel, Faul R., Cambridge, MA, United States Cubist Pharmaceuticals, Inc., Cambridge, MA, United

PATENT ASSIGNEE(S):

States (U.S. corporation) Cancer Institute, Japanese Foundation for Cancer

Research, Tokyo, Japan (non-U.S. corporation

NUMBER KIND DATE 19930602 US 5759833 (8)

PATENT INFORMATION: APPLICATION INFO.:

US 1995-468557 19950606

RELATED APPLN INFO.:

Continuation-in-part of Ser. No. US 1994-250852, filed

on 27 May 1994, now abandoned

Utility DOCUMENT TYPE: FILE SEGMENT: Granted PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Hobbis, Lisa J.

TEGAL REPRESENTATIVE: NUMBER OF CLAIMS: 2.1

Hamilton, Brook, Smith & Reynolds, P.C.

EXEMPLARY CLAIM: NUMBER IF DRAWINGS:

3 Drawing Figure(s); 3 Drawing Page(s)

2982 LINE COUNT

CAS INDEXING IS AVAILABLE FOR THIS PATENT. AΒ

Isolated, recomminant numbers acids which encode an isoleucyl-tRNA synthetase (IleFS) of human origin have been used to make expression constructs and transformed host cells for the production of a recombinant human IleRS. A recombinant enzyme has been purified, and is active in the specific aminoacylation of tRNA by isoleucine. Isolated, recombinant enzyme, and antibodies made specifically thereto, can be useful in assays to diagnose and monitor the autoimmune disease known as antisynthetase syndrome." The essential isoleutyl tRNA synthetases of microbes pathogenic in numans can be the targets of inhibitory agents having antimicrobial activity. A himan isoleucyl tRNA synthetase, isolated and purified, can be used to assess the toxic effect in humans of such an inhibitory agent in various biochemical activity assays. This number engine has also be expressed in "tester strains" whose sells tely upon the function of the numan isoleuryl tRNA synthetase for tRNA.sup.Ile charging. Such tester strains can be used to test for any toxic effects of an antimicrobial agent that specifically interacts with a heterologous human IleRS gene or gene product.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 20 OF 37 CAPLUS COPYRIGHT 2001 ACS

ADDESSION NUMBER:

1998:137169 CAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

128:292566

TIPLE:

SOURCE:

AUTHOR(S):

Pneumbroccal bacteriophage Cp 1 encodes its own protease essential for phage maturation Martin, Ana C.; Lopez, Rubens; Garcia, Pedro

Dep. Microbiología Molecular, Centro de

Investigationes Biologicas, CSIC, Madrid, 29006, Spain J. Virol. (1998), 72(4), 3491-3494 CODEN: JOVIAM; ISSN: 3022 538X

PUBLISHER: American Society for Micropiology DOCUMENT TYPE:

English

The major capsid protein of the pneumococcal phage Cp 1 that accounts for 90% of the total protein found in the purified virions is synthesized by posttranslational processing of the product of the open reading frame (OFF) orf9. Cloning of different ORFs of the Cp-1 genome in Escherichia coli and Streptococcus pneumoniae combined with Western blot anal. of the

expressed products led to the conclusion that the product of orf13 is an endopritease that cleaves off the first 48 amino acid residues of the major head protein. This protease appears to be key enzyme in the morphopoletic pathway of the Cp I phage head. To our knowledge, this is the first case of a bacteriophage infecting gram pos. bacteria that encodes a protease involved in phage maturation.

L10 ANSWER 21 OF 37 BIOSIS COPYRIGHT 2002 BIOSIS

ACCESSION NUMBER: 1998:270045 BIOSIS DOCUMENT NUMBER: PREV199800270045

TITLE: Functional expression and enzymatic properties of two Sitophilus zeamais cysteine proteinases showing different

autolytic processing profiles in viero.

AUTHOR S): Matsumoto, Ichiro (1); Abe, Keiko; Arai, Soichi; Emori,

Yasufumi

CORPORATE SOURCE: (1) Dep Applied Biol. Chem., Graduate Sch. Agric. and Life Sci., Univ., 1 1-1 Yayoi, Bunkyo ku, Tokyo 113-8657 Japan Source: Journal of Biochemistry (Tokyo), (April, 1998) Vol. 123,

No. 4, pp. 693 700.

ISSN: 0021-924X.

DOCUMENT TYPE: Article LANGUAGE: English

To characterize in more detail the cathepsin Lelike cysteine proteinases from Sitophilus zeamais (SCPs) cloned in our previous study (Matsumoto et al. (1997) J. Biochem. 121, $464 \cdot 476$), we established a system for their functional expression and purification using a glutathione S transferase (GST) fusion gene vector from Escherichia poli. The proenzyme forms of two representative SIPs. proSCPc1 and proSCPg3, were expressed as GST-fusion proteins and purified on a glutathione Sepharose column. GST-proSCPcl undergoes autoproteolytic cleavage into the mature form efficiently at acidic pH, and exhibits significant protoclytic activity toward various substrates including hemoglobin and Z-Phe-Arg-MCA. The enzymatic characteristics of the activated form of SCPc1 are similar to those of mammalian tathepsin L. but its pH optimum for the hydrolysis of hemoglobin is significantly lower. The other proSCP, GST-proSCPg3, which has a shorter COOH terminal domain than SCPc1, undergoes almost no autolytic processing and shows only very slight proteolytic activity, although the other enzymatic characteristics of GST proSCPg3 are similar to those of GSI proSCPc1.

L10 ANSWER 22 OF 37 USPATFULL

ACCESSION NUMBER: 37:99151 USPATFULL

TIPLE: Solution phase nucleic acid sandwich assays having

reduced background noise and kits therefor INVENTOF(S): Urdea, Michael S., Alamo, CA, United States Fultz, Timothy, Martinez, CA, United States Warner, Brian D., Martinez, CA. United States

Jollins, Mark, Walnut Creek, CA, United States

PATENT ASSIGNEE(S): Chiron Corporation, Emerywille, CA, United States (U.S.

corporation)

NUMBER KIND DATE

PATENT INFOFMATION: US 5631697 19971003 APPLICATION INFO:: US 1993 164388 19931203 (8) DOCUMENT TYPE Utility

DOJUMENT TYPE Utility FILE SEGMENT: Granted

FRIMARY EXAMINES: Harsthel, Argin H.

LEGAL SEPRESENTATIVE: Reed, Dianne E., Goldman, Kenneth M., Elackburn, Robert

NUMBER OF CLAIMS: 3 ENEMPLARY CLAIM: 1

NUMBER OF DEANINGS: 16 Drawing Figure(s'; 13 Drawing Page:s

LINE COUNT 3153

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB New techniques are provided for substantially reducing background signals encountered in solution phase hybridization assays. The techniques are premised on eliminating or significantly reducing the phenomena of nonspecific hybridization and nonspecific binding, so as to provide a detectable signal which is produced only in the presence of the target polynumlectide of interest. In certain embodiments, methods are provided for increasing the signal which can otherwise be diminished in noise reduction. Kits for carrying out the novel assays are provided as well.

CAJ INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 23 OF 37 USPATFULL

ACCESSION NUMBER: 97:70912 USPATFULL

TITLE: Recombinant mycobacterial seryl tRNA synthetase genes.

tester strains and assays

INVENTOF(S): Martinis, Susan A., Newton, MA, United States

Zhang, Jiansu, Cambridge, MA, United States Schimmel, Faul R., Cambridge, MA, United States Subist Pharmaceuticals, Inc., Cambridge, MA, United PATENT ASSIGNEE S : States U.S. corporation

> NUMBER KIND DATE

PATENT INFORMATION: US 5656470 19970810 US 1994 305172 APPLICATION INFO.: 19940913 DOCUMENT TYPE: Utility

FILE SEGMENT: Granted PRIMARY EXAMINER: Wax, Robert A.

ASSISTANT ENAMINER: Hobbs, Lisa J. LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: 1.9 EXEMPLARY CLAIM: LINE CRUNT: 2543

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Isolated and/or recombinant nucleic acids encoding mycopacterial seryl tRNA synthetase have been characterized. Recombinant DNA constructs and vectors having a sequence which encodes mycobacterial seryl-tRNA synthetase have been made, and can be used for the construction of tester strains as well as for the production of isolated and for recombinant seryl tENA synthetases. These enzymes or portions thereof are useful in the biochemical separation of serine and quantification of serine or ATP, and for producing antipodies useful in the purification and study of the enzyme, for example. Host cells and methods useful for producing recombinant mycobacterial seryl-tRNA synthetases are described, as are tester strains, which are cells engineered to rely on the function of the tFNA synthetase encoded by an introduced cloned game. Tester scrains can be used to identity innihitors of the essential tRNA synthetase enzyme encoded by the

introduced cloned gene, and thus provide a means to assess the antimicrobial effect and specificity of the inhibitor without employing slow-growing, pathogenic strains of mycobacteria, such as Mycobacterium

tubercultsis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 24 OF 37 USPATFULL

ACCESSION NUMBER: 97:47261 USPATFULL

TITLE: Solution phase nucleic acid sandwich assays having

reduced background noise INVENTOR S :

Undea, Michael S., Alamo, CA, United States Fultz, Timothy, Martinez, CA, United States Warner, Brian D., Martinez, CA, United States Collins, Mark, Walnut Creek, CA, United States

PATENT ASSIGNEE(S): Chiron Corporation, Emeryville, CA, United States (U.S.

comporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5635352 19970603 APPLICATION INFO.: US 1995 429181 19950426 (3)

Continuation of Ser. No. US 1993-164388, filed on 8 Dec RELATED APPLN. INFO.:

1993

DOCUMENT TYPE: Utility Granted elle ezeMaNi:

PRIMARY EXAMINES: Marschel, Ardin H.

LEGAL REPRESENTATIVE: Reed & Robins, Goldman, Kenneth M., Blackburn, Robert

Ρ.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 16 Drawing Figure s); 13 Drawing Page(s)

DINE COUNT 2338

CAS INDEXING IS AVAILABLE FOR THIS PATENT

New techniques are provided for substantially reducing background signals encountered in solution phase hybridization assays. The techniques are premised on eliminating or significantly reducing the the nomena of nonspecific hybridization and nonspecific binding, so as to provide a detectable signal which is produced only in the presence of the target polynucleotide of interest. In certain embodiments, methods are provided for increasing the signal which can otherwise be diminished in noise reduction. Fits for carrying out the novel assays are provided as well.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 25 OF 30 USPATFULL

ACCESSION NUMBER: 97:27051 USPATFULL

Assay for antiviral activity using complex of TITLE: herpesvirus origin of replication and bellular protein

Schaffer, Priscilla A., Holliston, MA, United States INVENTOR S :

Dabrowski Amaral, Christine E., Plymouth, MA, United

States

Dana-Farber Cancer Institute, Boston, MA, United States PATENT ASSIGNEE'S .:

U.S. corporation

NUMBER KIND DATE

19970401 US 5616461 PATENT INFORMATION: 19920514 APPLICATION INFO.: J3 1992 882838

DOCUMENT TYPE: Grantei FILE SEGMENT:

Mosner, Mary E. PAIMARY EXAMINER:

LEGAL REPRESENTATIVE: Paniton Schwarze Jacobs & Nadel, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER IF DRAWINGS: 17 Drawing Figure:s1; 11 Drawing Page s;

LINE COUNT: 1290

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention features methods and compositions useful for identifying ABrandidate compounds for antiviral activity, useful for inhibiting replication of a DNA virus, and useful for treating an animal infected with a DNA virus.

CAS IMPEXING IS AVAILABLE FOR THIS PATENT.

L10 AMSWER 26 OF 37 USPATFULL

ACCESSION NUMBER: 97:1169 USPATFULL

TITLE DNA sequence encoding surface protein of

cryptosporidium parvum

INVENTOR (3:: Jenkins, Mark C , Bowie, MD, United States

Fayer, Ronald, Ellicott City, MD, United States Tilley, Michael, Manhattan, KS, United States Upton, Steven L , Manhattan, KS, United States

The United States of America as represented by the PATENT ASSIGNEE(S):

Secretary of Agriculture, Washington, DC, United States

(U.S. government)

Kansas State University Research Foundation, Manhattan,

K3, United States (U.S. corporation)

NUMBER KIND DATE

US 5591434 19970107 PATENT INFORMATION: US 5591434 19970107 US 1904 229393 19940415 (8) APPLICATION INFO .:

Continuation in part of Ser. No. US 1993 68396, filed RELATEL APPLN. INFO.:

on 26 May 1993, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT Granted

PRIMARY EXAMINER: Taputa, Anthony C.

LEGAL FEPRESENTATIVE: Silverstein, M. Howard, Deck. Randall E., Fado, John D.

1.7 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 12,14

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

٠, ١

ΑB Recombinant proteins have been developed for the immunization of animals

against cryptosporidicals. The Proteins are effective for the

immunization of a variety of animals against Tryptosporidium parvum, particularly for the production of hyperimmune colostrum that may be used to confer passive immunity against the parasite. Isolated DNA sequences which encode these proteins have also been developed. The DNA sequences may be inserted into recombinant DNA molecules such as cloning vectors or expression vectors for the transformation of cells and the

production of the proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LID ANSWER 27 OF 37 BIDSIS COPYRIGHT 2002 BIOSIS

ACCESSION NUMBER: 1997:212699 BIOSIS DOCUMENT NUMBER: PREV199799519202

TITLE Phylogeny and potential transmission routes of

midgat associated endosymbionts of tsetse |Diptera:

Glossinidae

Aksoy, S. (1); Chen, X.; Hypsa, V. AUTHOR S):

CURPORATE SOURCE:

(1) Dep. Epidemiol. Public Health, Yale Univ. Sch. Med., 60 College St., 702 LEPH, New Haven, CT 06510 USA Insert Mclecular Biology, -1997 Vol. 6, No. 2, pp.

183 190

ISSN: 0962-1075.

DOCUMENT TYPE: Article LANGUAGE: English

STURCE

Many tsetse species (Diptera: Glossinidae: harbour two morphologically

different intracellular endosymbiotic microorganisms associated with gut tissue: primary P and secondary S endosymbionts. The Pendosymbionts of tsetse Wigglesworthia glossinidia are sequestered in specialized epithelial cells, bacteriocytes, which form a structure (bacteriome) in the anterior portion of the gut. Phylogenetic characterization of P-endosymbionts from the three subgenera of genus Glossina has shown that these organisms constitute a distinct lineage within the gamma-subdivision of Protecbacteria and have evolved confordantly with their insect host species, suggesting an evolutionarily ancient association for this symbiosis. The Scendosymbiont is a smaller 1-2 mu-mo gram negative rod and is harboured in midght epithelial cells. Its phylogenetic characterization from Glossina morsitans morsitans had shown that It is a member of the family Enterobacteriaseae within the gamma 3 subdivision of the Proteobacteria, closely related to enteric bacteria. Some tsetse species harbour a third bacterium In their reproductive tissue, which was shown phylogenetically to belong to the Wolbachia pipientis assemblage of microorganisms. Here, we show that S-endosymbionts from five tsetse species, representing all three subgenera, form a cluster of plosely related microorganisms, based on their almost identical 16S rRNA gene sequences. This high similarity provides strong evidence of recent independent acquisition of S-endosymbicants by individual testse species, unlike Wigglesworthia which displays concordant evolution with host insect species. A PCR based assay and restriction fragment length polymorphism (RFLP) analysis was developed to localize the S-endosymbionts and Wigglesworthia in ovary, egg, milk gland and spermathera tissues in order to Investigate the potential routes for the vertical transmission of these symbionts to the intrauterine larvae. Inly S-endosymbionts were found to infect milk gland tissue suggesting that milk gland secretions represent a route of transmission for these symbionts into the developing larva. The ovary tissue was found to harbour only Wolbachia, confirming its ransevarial cransmission, whereas the mode of transmission of Wigglesworthia remains unknown.

L10 ANSWER 28 OF 37 USPATFULL

96:99379 USPATFULL

ACCESSION NUMBER:

Maize phlorotic dwarf virus and resistance thereto TITLE: McMullen, Michael D., Wooster, OH, United States Foth, Bradley A., Grimes, IA, United States INVENTOR(3):

Townsend, Rod, Des Moines, IA, United States

Pioneer Hi-Bred International, Inc., Des Moines, IA, PATENT ASSIGNEE(S): United States (U.3. corporation)

The United States of America as represented by the Department of Agriculture, Washington, DJ, United

States (U.S. government)

KIND DATE NUMBER

US 5569828 19961029 PATENT INFORMATION: APPLICATION INFO:: US 1993-38763 19930324 (8)

DOCUMENT TYPE Utility Granted FILE SEGMENT: PRIMARY EXAMINES: Fox, David T.

ASSISTANT EXAMINER: Veitenmeimer, Erich E.

2.0

NUMBER OF CLAIMS:

1,2,11 EXEMPLARY CLAIM:

NUMBER OF TRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Methods and materials are provided to isolate the coat protein genes AB from maire chlorotic dwarf virus. One or more of these genes (MCDV-CP.sub.1, MCDV-CP.sub.2 or MCDV-CP.sub.3) is then incorporated in an expression cassette designed for suitable expression in a plant cell system. The resulting transformation vector is then introduced into maize to provide cross protection to MCDV or related viral infections.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 29 OF 37 USPATFULL

ACCESSION NUMBER: 96:91956 USPATFULL

TITLE:

Transcription factor DNA binding assay Peterson, Michael G., So. San Francisco, CA, United INVENTORAS :

States

Baichwal, Vijay R., So. San Francisco, CA, United

States

Strulovici, Berta, So. San Francisco, CA, United States Tularik, Inc., South San Francisco, CA, United States PATENT ASSIGNEE :: :

U.S. corporation

KIND DATE NUMBER 19961008

PATENT INFORMATION: US 556303€ US 1994-235503 19940429 (8) APPLICATION INFO :

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Elliott, George C. ASSISTANT EXAMINER:

McKelvey, Terry A. Flehr, Hohbach, Test, Albritton & Herbert LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 14

NUMBER OF DRAWINGS: 1 Drawing Figure s.; 1 Drawing Page s

LINE COUNT: 1192

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

 ${\tt Pharmacological\ agents\ useful\ in\ the\ diagnosis\ or\ treatment\ of\ disease}$ AP assimilated with the expression of a gene are identified in high throughput drug screening assays. The methods involve combining a labeled transcription factor, a nucleic acid coupled to a ligand, a candidate pharmacological agent and a receptor immobilized on a solid substrate, such as a microtiter plate, filter, or bead. The nucleic acid has at least that portion of a nucleotide sequence naturally involved in the regulation of the transcription of the gene which is necessary for sequence-specific interaction with the transcription factor. The resultant combination is incubated under conditions whereby the receptor is bound to the ligand and, but for the presence of said candidate pharmacological agent, the transcription factor is sequence-specifically bound to the nucleic acid. Unbound transcription factor is then removed or washed from the solid substrate and labelled, sequence-specifically bound transcription factor is detected. Incubates which include candidate agents which alter transcription factor binding deviate from control incubates in terms of label signal--typically, binding is disrupted and the signal is diminished. In a preferred embodiment, the

entire process is performed by a computer-controllable electromechanical

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 30 OF 37 USPATFULL

ACCESSION NUMBER: 96:30013 USPATFULL

robot with an axial rotatable arm.

TITLE Cloning and sequencing of allergens of dermatophagoides

house dust mite

INVENTOR(S): Thomas, Wayne R., Nedlands, Australia Chua, Kaw-Yan, Nollamara, Australia

PATENT ASSIGNEE(S): Immulogic Pharmaceutical Corporation, Waltham, MA,

United States (U.3. corporation)

NUMBER KIND DATE

PATENT INFORMATION: MS 5552142 19960903 APPLICATION INFO.: US 1995:462831 19950605 (8)

RELATED APPLN INFO.: Division of Ser. No. US 1992 945288, filed on 10 Sep 1992, now patented, Pat. No. US 5433948 which is a continuation in part of Ser. No. US 1990 580655, filed

on 11 Sep 1990, now abandoned which is a

continuation in part of Ser. No. US 1990 453642, filed

on 13 Feb 1990, now abandoned

DOCUMENT TYPE Utility FILE SEGMENT: Grant ed

PRIMARY EXAMINER: Nucker, Christine M. ASSISTANT EXAMINER: Scheiner, Laurie LEGAL EFFREGENTATIVE. Lab to 4 Cockfield

NUMBER OF CLAIMS: EXEMPLARY CLAIM

NUMBER OF TRAWINGS: 31 Drawing Figure(s); 29 Drawing Page(s)

LINE COUNT:

CAS INTEXING IS AVAILABLE FOR THIS PATENT. AB

The present invention features isolated DNA encoding allergens of Termatophagoides shouse dust mites particularly of the species Termatophagoides faringe and Dermatophagoides pteronyssinus, which are protein allergens or peptides which include at least one epitope of the protein allergen. In particular, the invention provides DNA encoding the major D, farinae allergens, Der f I and Der f II and DNA encoding the major D. pteronyssinus allergens, Der p I and Der p II. The present invention further relates to proteins and peptides encoded by the isolated D. farinae and D. pteronyssinus DNA, including proteins containing sequence relymorphisms. In addition, the proteins or peptides encoded by the isolated DNA, their use a diagnostic and therapeutic :eagents and methods of diagnosing and treating sensitivity to house dust mite allergens, are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 31 OF 37 USPATFULL

ACCESSION NUMBER: 96:75316 USPATFULL

Heterologous signal sequences for secretion of insect

controlling proteins

09/462,846 Search Strategy/Results

Black, Bruce C., Yardley, PA, United States Summers, Max D., Bryan, TX, United States:4: INVENTOF (S):

American Cyanamid Company, Wayne, NJ, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER

US 5547871 1996082 19960820 PATENT INFORMATION: 19930125 (8) US 1993-9265 APPLICATION INFO.:

ECCUMENT TYPE: Utility FILE SEGMENT: Granted FFIMALY ENUMINED: Wax, Robert A

Hendricks, Keith D. ASSISTANT EXAMINER:

Webster, Darryl L., Gordon, Alan M. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 21

NUMBER OF DEAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT 2047

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Seven heterologous signal sequence are described for use with genes for ÀΒ insect controlling proteins, such that when the signal sequence and protein genes are inserted into an insect virus, that virus demonstrates an earlier onset of morbidity than a wild-type insect virus which lacks

the gene for the insect controlling protein

CAS INDEXING IS AVAILABLE FOR THIS PATENT

L10 ANSWER 32 OF 37 USFATFULL

ACCESSION NUMBER 95:110151 USPATFULL

Industrial alkaline protease from shipworm bacterium TITLE

Griffin, Harold L , Peoria, IL, United States Greene, Richard V , Peoria, IL, United States Cotta, Michael A., Peoria, IL, United States INVENTOR(S

The United States of America as represented by the PATENT ASSIGNEE S: Secretary of Agriculture, Washington, DC, United States

U S. government)

KIND DATE NUMBER

PATENT INFORMATION: US 5474700 19951212 19940114 (8) US 1994-182918 APPLICATION INFO :

Division of Ser. No. US 1992-880912, filed on 12 May RELATED APPLN INFO ::

1992, now patented, Pat. No. US 5312749

DOCUMENT TYPE Utility FILE SEGMENT Granted

PRIMARY EXAMINEE Lieberman, Paul

Fries, K. ASSISTANT EXAMINER

LEGAL FEPRESENTATIVE: Silverstein, M. Howard, Ribando, Curtis P., Fado, John D.

NUMBER OF CLAIMS EXEMPLARY CLAIM

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT 699

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A protease has been isolated from a symbiotic bacterium found in the AB gland of Deshayes of the marine shipworm. The protease remains active over the pH range of about 4 12, exhibits salt tolerance up to 3M acdium chloride, retains a high level of activity above 50.degree. 2. for at least 60 min, and is stimulated by oxidizing agents, particularly perborate. The properties of this protease suggest widespread utility in

detergents and other low-temperature industrial applications.

CAS INTEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 33 CF 37 USPATFULL

ACCESSION NUMBER: 95:64719 USFATFULL

Cloning and sequencing of allergens of dermatophagoides TITLE.

(house dust mite)

Thomas, Wayne R., 31 Taylor Road, Nedlands, Australia INVENTOR(3 :

5777

Jhua, Kaw-Yan, 35 Munja Way, Nollamara, Australia 6061

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09/462,846 Search Strategy/Results

Nucker, Christine M PRIMARY EXAMINER: ASSISTANT EXAMINER: Scheiner, Lautlie

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CAS INDEXING IS AVAILABLE FOR THIS PATENT

The present invention features isolated DNA encoding allergens of Termatophagoides (house dust mites) particularly of the species Dermatophagoides farinae and Dermatophagoides pteronyssinus, which are protein allergens or peptides which include at least one epitope of the rotein allergen. In particular, the invention provides DNA encoding the major D. farinae allergens, Der f I and Der f II and DNA encoding the major D. pteronyssimus allergens, Der p I and Der p II. The present invention further relates to proteins and peptides encoded by the isolated D. farinae and D. pteronyssinus DNA, including proteins containing sequence polymorphisms. In addition, the proteins or peptides encoded by the isolated INA, their use a diagnostic and therapeutic reagents and methods of diagnosing and treating sensitivity to house dust mite allergens, are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LIO ANSWER 34 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:732732 CAPLUS

DOCUMENT NUMBER: 123:136323

Characterization, subcellular localization, and TITLE

developmental regulation of a systeine proteinase from

Distyostelium discoideum

Mehta, Darshini P., Etchison, James R.; Freeze, Hudson AUTHOR(S)

La Jolla Cancer Res. Foundation, La Jolla, CA, 92037, CORPORATE SOURCE:

USA.

SOURCE Arch. Biochem. Biophys. (1995), 321(1), 191-8

CODEN: ABBIA4; ISSN: 0003-9861

DOCUMENT TYPE: Journal LANGUAGE. English

Previous studies showed that vegetative cells of Dictyostelium discoideum make a cysteine proteinase called proteinase-1, which contains multiple residues of GlcNAc-1-P linked directly to peptidyl serines. As a prelude to understanding the function of this novel carbohydrate modification, the authors purified and extensively characterized this proteinase in terms of ats enzymic activity, subsellular localization, and developmental regulation. The purified enzyme has an apparent mol. wt. of 38 kDa in heat-denatured, reducing SDS-PAGE and 55 kDa under nonreducing conditions. Native gel electrophoresis and isoeled focusing revealed two protein bands with equal activity and having pI values of 2.5 and 2.6. Even more complex patterns are found in non-heat-denatured SDS/PAGE gels. However, partial amino acid sequencing of the purified protein gave predominantly a single sequence. The enzyme is inhibited by trans-epoxysuccinyl-L leucylamido-(4-guanidino) butane, Na-p-tosyl-L-lysine chloromethyl ketone, N tosyl-L-phenylalanine chloromethyl ketone, and leupeptin, has a pH optimum of 5.0, and pofractionates with lysosomal enzymes in bacterially grown cells. It appears to comprise about 90% of the total cysteine proteinase activity in cells at a time when the cells have just finished clearing the bacterial lawn Prior to this point and after the neet of development, ste level is 2 to 20 fold lower. This remarkably fine regulation parallels the developmental regulation of other cysteine proteinases in Dictyostelium. Based on these results it appears that proteinase-1 may be primarily used for specialized proteolysis just before the onset of development rather than for simply digesting the bacteria for food.

L10 ANSWER 35 OF 37 BIOSIS COPYRIGHT 2002 BIOSIS

ADDESSION NUMBER: 1995:21445 BIDSIS PREV199598034745 DECUMENT NUMBER:

Differential gene expression in an actinorhizal symbiosis:

Evidence for a nodule specific cysteine proteinase

AUTHOR S1:

Goetting-Minesky, M. P.; Mullin, B. J. Graduate Program Plant Physiol. Genetics, Dep. Bot., Center CORPORATE SOURCE: Legume Res., Univ. Tennessee, Knoxville, TN 37996-1100 USA

Proceedings of the National Academy of Sciences of the United States of America, (1994) Vol. 91, No. 21, pp.

SOURCE

9891-9595.

ISSN: 1027-8424

DOCUMENT TYPE: Article English

Nodules formed on the roots of actinorhizal plants as a consequence of nitrogen-fixing symbioses with the actinomycete Frankia appear to result from modification of the developmental pathway that leads to lateral root formation. Presently no information exists about factors that control this 09/462,846 Search Strategy/Results

developmental switch or, until now, about genes that are differentially expressed as a result of an altered developmental pathway. Differential screening of an Alnus glutinosa nodule cDMA library revealed altered levels of gene expression in nodules as compared with roots and allowed isolation of host plant nodule-specific cDNA sequences. The deduced amino acid sequence of one full-length CDNA, AgNCD-CP1, represents a nodule-specific cysteine proteinase similar to cysteine proteinases of the parain superfamily. Residues critical to catalysis, active site, and disulfide bridges are conserved. Suggested roles for this enzyme are as a defense response to Frankia invasion, as a component of tissue remodeling in root and nodule tissues, as a cell cycle component, or as an element of protein turnover. Immplexity of hybridization patterns revealed by Southern blot analysis suggests that the gene for AgNOD-CP1 is a member of a multigene family. Northern hybridization results indicate that this gene may have been recruited for a role specific to this symbiosis, a phenomenon observed in the Rhizobium legume symbioses, perhaps common to many microbe plant interactions.

L10 ANSWER 36 OF 37 CAPUUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1936:164925 CAPLUS

DOTIMENT NUMBER: 104:164925

Formation of a covalent complex between the terminal protein of pneumonoccal bacteriophage Cp-1 and 5'-dAMP TITLE

AUTHOR S : Garcia, Pedro; Hermoso, Jose M.; Garcia, Juan A.; Garcia, Ernesto; Lopez, Rubens; Salas, Margarita

Inst Immunol. Biol. Microb., Madrid, 28006, Spain CORPORATE SOURCE:

J. Virol (1986), 58(1), 31-5 SOURCE CODEN: JOVIAM; ISSN: 0022-538X

DOCUMENT TYPE: Journal LANGUAGE English

Incubation of exts. of Cp-1-infected Streptococcus pneumoniae with [alpha.-32P]dATE produced a labeled protein with the electrophoretic mobility of the Cp-1 terminal protein. The reaction product was resistant to treatment with micrococcal nuclease and sensitive to treatment with proteinase K. Incubation of the 32P-labeled protein with 5M piperidine for 4 h at 50 degree, released 5'-dAMP, indicating that a covalent complex between the terminal protein and 5'-dAMP was formed in vitro. When the 4 decxynucleoside triphosphates were included in the reaction mixt., a labeled complex of slower electrophoretic mobility in SDS polyacrylamide gels than the terminal protein-dAMP complex was also found, indicating that the Cp-1 terminal protein dAMP complex can be elongated and, therefore, that it is an initiation complex. Treatment of the 32P-labeled terminal protein-dAMP complex with 5.8M HCl at 110.degree. for 2 h yielded phosphothreonine. These results, together with the resistance of the terminal protein DNA linkage to hydroxylamine, suggest that the Cp-1 terminal protein is royalently linked to the DNA through a phosphoester bond between L-threonine and 5'-dAMP, namely, a O-5'-depxyadenylyl-L-threonine bond

L10 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2002 ACS

1984 3346 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 100:3346

TITLE: Protease sensitive transfection of

Streptococcus pneumoniae with bacteriophage Cp-1 DNA Randa, Concepcion; Lopez, Rubens; Gomez, Antonio; AUTHOR SI:

Garcia, Ernesto

Inst Immunol. Biol Microbiana, Conseje Super Invest. Cient. Velizquez, Madrid, Spain J. Virol (1983), 48(3), 721 30 CORPORATE COURCE.

SOURCE DODEN: JOVIAM; ISSN: 0022-538X

DOCUMENT TYPE: Journal

LANGUAGE: English

The transfecting activity of pneumococcal phage Cp-1 DNA was destroyed by treatment with proteclytic enzymes, although these enzymes did not affect transfertion with bacteriophage Dp-4 DNA. This transfection was stimulated by Ca+. Protease treated Dp-1 DNA competes for binding and uptake with transforming pneumococcal DNA as well as with transferting $\text{Dp}\ 4$ DNA to approx. the same extent as does untreated $\text{Cp}\ 1$ DNA. In addn., [3H]thymidine-labeled Cp-1 DNA, treated with proteases or untreated, was absorbed with the same efficiency. Apparently, the uptake of Cp-1 DNA is not affected by protease treatment. [3H]thymidine-labeled Cp 1 DNA showed remarkable resistance against surface nuclease activity of competent wild-type cells. The monomeric form of the 3p 1 DNA-proetin complex showed a linear dose response in transfection.